Portable Spectrophotometer LX500PS

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Description

Portable spectrophotometer LX500PS has an array sensor, a 400–700 nm full wavelength and LED light source. It is a small and manageable device. Two different kinds of measurement apertures are included in so that different samples can be measured.

Specifications

Wavelength range	400-700nm
Wavelength interval	10nm
Reflectance range	0-200%
Reflectivity resolution	0.0001
Geometry	D/8, SCI/SCE
Repeatability	ΔE*ab≤ 0.025
Inter-instrument agreement	ΔE*ab≤0.25
Display resolution	0.01
Measuring aperture	Two Φ11mm, Φ6mm
Measurement index	Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE-Luv, XYZ, Yxy, RGB, Color difference (ΔE*ab,ΔE*cmc,ΔE*94,ΔE*00), WI (ASTM E313-00, ASTM E313-73, CIE, ISO2470/R457, AATCC, Hunter, Taube Berger Stensby), YI (ASTM D1925, ASTM E313-00,ASTM E313-73), Blackness □My,dM), Color Fastness, Tint, (ASTM E313-00), Color Density CMYK (A,T,E,M), Milm, Munsell, Opacity, Color strength
Illuminants	A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, TL83, TL84, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED BH1, LED-RGB1, LED-V1, LED-V2
Measurement and observation mode	Visual
Calibration	Intelligent automatic calibration
Accuracy	Metrology level I
Observer angles	2°, 10°

Sphere dimension	40mm
Spectroscopic method	Grating
Sensor	Array sensor
Measurement time	Less than 2.5 seconds
Interface	USB, Bluetooth
Battery capacity	Rechargeable, 8000 times continuous tests, 7.2V/3000mAh
Storage	100 Standard samples and 10000 samples APP: Mass storage
Packing dimension	360 x 370 x 220 mm
Gross weight	3 Kg

Features

- Equipped with 3.5 inch touch screen display
- Full-band balanced LED light source
- It has automatic calibration function
- Comes with two aperture as standard, no tools are needed and apertures can be replaced at any time to meet different sample measurement requirements
- It can indices 30 types of colors and 37 types of illuminants
- Supports Android, IOS and Windows program

Applications

- Used for the color and transmittance measurement in industrial samples like petroleum and oil, textile and yarn, pellet materials and packing material, etc.

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